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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/806,270	03/22/2004	Douglas C. Sundet	54826US010	1947	
32692	7590 05/22/2006		EXAM	EXAMINER	
3M INNOVATIVE PROPERTIES COMPANY			PHAM, MINH CHAU THI		
PO BOX 33 ST. PAUL.	427 MN 55133-3427	•	ART UNIT	PAPER NUMBER	
,			1724		
			DATE MAILED: 05/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	M
		10/806,270	SUNDET ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Minh-Chau T. Pham	1724	
Doring fo	The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence addres	s
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we tre to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON.	N. mely filed  n the mailing date of this commu ED (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		rits is
Dispositi	ion of Claims			
5) □ 6) ⊠ 7) □ 8) □ <b>Applicat</b> i 9) □ 10) □	Claim(s) 1-44 is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) 1-44 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or  for Papers  The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	wn from consideration.  r election requirement.  r.  epted or b) □ objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is objected to be one of the drawing(s) is objected to by the objected to by the drawing(s) be held in abeyance.	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.	
		ammer. Note the attached Office	ACTION OF TORM PTO-1	52.
12) <u> </u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receiv I (PCT Rule 17.2(a)).	ion No ed in this National Stag	je
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>6/25/04</u> .	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:		)

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsai et al (6,428,610 B1).

Tsai et al teach a method of making a self-supporting pleated air filter comprising the steps of forming a plurality of pleats in the filter media (col. 4, lines 4-6), bonding at least one planar first reinforcing strip (16) on the front face of a filter media (10, 12, 14, col. 3, lines 30-57), positioning at least one reinforcing member (22) on the rear face of filter media (10, 12, 14), cutting the pleated filter media to size (col. 4, lines 6-7). Tsai et al further teach the step of forming a plurality of pleats in the reinforcing member during the step of forming the pleats in the filter media (Figs, 7, 8a & 8b, col. 3, line 30 through col. 4, line 14). Tsai et al also teach a self-supporting pleated filter comprising a first reinforcing member (16) oriented on the front face of a filter media (10, 12, 14, see Fig. 5a), and a second reinforcing member (22) oriented on the rear face of a filter media (10, 12, 14, see Fig. 2) and the filter media is pleated (see Figs. 7, 8a & 8b).

Regarding to the numerical requirements of claims 6, 18-22 and 34-37, the specification contains no disclosure of either the critical nature of these requirements or any unexpected results arising therefrom, and as such these requirements would be

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arbitrary and therefore obvious. Applicant <u>must</u> show that these requirements are critical. <u>In re Woodruff</u>, 16 USPQ 2d 1934.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Kiyotani et al (6,682,576 B1).

Kiyotani et al teach a method of making a self-supporting pleated air filter comprising the steps of forming a plurality of pleats in the filter media (col. 6, lines 40-44), bonding at least one planar first reinforcing strip on the front face of a filter media (col. 5, lines 45-60), and positioning at least one reinforcing member on the rear face of filter media (col. 7, lines 40-57) (see Fig. 5). Kiyotani et al further teach the step of applying frame member to the pleated filter media (col. 4, lines 35-41 and lines 58-62, col. 6, lines 45-52). Kiyotani et al also teach a self-supporting pleated filter (43) comprising a first reinforcing member (51a) oriented on the front face of a filter media (51), and a second reinforcing member (51b) oriented on the rear face of a filter media (51) and the filter media is pleated (see Fig. 2).

Regarding to the numerical requirements of claims 6, 18-22 and 34-37, the specification contains no disclosure of either the critical nature of these requirements or

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any unexpected results arising therefrom, and as such these requirements would be arbitrary and therefore obvious. Applicant <u>must</u> show that these requirements are critical. *In re Woodruff, 16 USPQ 2d 1934*.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minh-Chau Pham Patent Examiner Art Unit: 1724

May 18, 2006